(b) and (c) A target of 3000 Solar Home Systems was allotted to Karnataka during the year 2002-2003, against which an achievement of 3103 system has been reported. It is proposed to allocate a target of about 3500 solar home systems during the year 2003-2004 to Karnataka.

(d) The amount of subsidy released to Karnataka for solar home systems and street lighting systems during the year 2002-2003 was Rs. 94 Lakhs. So far, no subsidy on such systems has been released to Karnataka for the year 2003-04.

Potential of different kinds of Non-Conventional energy sources

857. SHRI LALITBHAI MEHTA: Will the Minister of NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

(a) what is the potential of different kinds of non-conventional energy sources in the country, State-wise;

(b) the actual production of electricity through such non-conventional energy sources, State-wise;

(c) whether Government plants to tap non-conventional energy sources in the country; and

(d) what is the position of Gujarat in production of non-conventional energy sources to its potential?

THE MINISTER OF STATE IN THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (SHRI M. KANNAPPAN): (a) State-wise estimated potential of major non-conventional energy sources such as wind, small hydro, bagasse cogeneration, energy from wastes and biogas is given in Statement-I. (*See* below)

(b) A total power generating capacity of about 3900 MW has been installed through various non-conventional energy sources in the country as on 31-3-2003. State-wise break-up of the same is given in statement-II. (*See* below)

(c) A target capacity addition of 3075 MW from various non-conventional energy sources has been set for 10th Plan period, besides installation of various decentralized/standalone systems/devices for meeting cooking, heating, lighting and other energy needs.

(d) Against the estimated gross potential in Gujarat of wind (9675 MW), small hydro (157 MW), bagasse cogeneration (200 MW), energy from waste (112MW) and biogas plants (5.54 lakh), the cumulative achievements as on 31-3-2003 are 173.10 MW, 7.0 MW, 0.50 MW, 2.45 MW and 3.59 lakh plants respectively.

Statement-I

State-wise Estimated Potential for Non-conventional energy sources

Sl. No.	States/UTs	Wind Power (MW)	SHP*** (MW)	Bagasse Cogeneration (MW)	Energy from Wastes (MSW) (MW)	Biogas* Plants (Nos. in lakh)
1	2	3	4	5	6	7
1.	Andhra Pradesh	8275	254.63	200	123	10.66
2.	Arunachal Pradesh	0	1059.03	0	0	0.08
3.	Assam	0	118.00	5	8	3.08
4.	Bihar	0	194.02	200	62	9.40
5	Chhattisgarh	0	57.90	0	20	
6.	Goa	0	2.60	5	0	0.08
7.	Gujarat	9675	156.83	200	112	5.54
8.	Haryana	0	30.05	0	23	3.00
9.	Himachal Pradesh	0	1624.78	0	1	1.26
10.	Jharkhand	0	170.05	0	10	
11.	Jammu & Kashmir	0	1207.27	0	0	1.29
12.	Karnataka	6620	652.61	300	151	6.80
13.	Kerala	875	466.85	10	37	1.51
14.	Madhya Pradesh	5500	336.32	25	92	14.91
15.	Maharashtra	3650	599.47	1000	287	8.97

1	2	3	4	5	6	7
16.	Manipur	0	105.63	0	2	0.39
17.	Meghalaya	0	181.50	0	2	0.24
18.	Mizoram	0	190.32	0	2	0.03
19.	Nagaland	0	181.39	0	0	0.07
20.	Orissa	1700	156.76	25	22	6.05
21	Punjab	0	65.26	150	45	4.12
22.	Rajasthan	5400	27.26	10	62	9.15
23.	Sikkim	0	202.75	0	0	0.07
24.	Tamil Nadu	3050	338.92	350	151	6.16
25.	Tripura	0	9.85	0	2	0.29
26.	Uttar Pradesh	0	267.06	1000	176	20.21
27.	Uttaranchal	0	1478.24	0	5	
28.	West Bengal	450	182.62	10	147	6.95
29.	Andaman & Nicobar	0	6.40	0	0	0.02
30.	Chandigarh	0	0.00	0	6	0.14
31.	Dadar & Nagar Haveli	0	0.00	0	0	0.02
32.	Daman & Diu	0	0.00	0	0	0.00
33.	Delhi	0	0.00	0	131	0.13
34.	Lakshadweep	0	0.00	0	0	0.00
35.	Pondicheery	0	0.00	10	3	0.04
36.	Common to all States**			0	1020	
	TOTAL	45195	10324.37	3500	2700	120.63

MW=Mega-watt, SHP=Small Hydro Power MSW=Municipal Solid Waste

*the potential of Jharkhand, Chhattisgarh and Uttaranchal Pradesh included in Bihar Madhya Pradesh and Uttar Pradesh respectively
**1020 MW for industrial waste under energy from waste programme
***identified Sites' Potential

Statement–II

State-wise installed capacity as on 31.3.2003 in MW

Sl. No.	State/UT	Wind Power	Small Hydro Power	Biomass Power*	Energy from Wastes	Solar Power	Total as on 31.3.2003
1.	Andaman & Nicobar		5.25			0.05	5.30
2.	Andhra Pradesh	92.60	155.61	160.05	11.95	0.28	420.49
3.	Arunachal Pradesh		32.37				32.37
4.	Assam		2.00				2.00
5.	Bihar		44.90				44.90
6.	Chhattisgarh		1.00	11.00			12.00
7.	Gujarat	173.10	7.00	0.50	2.45		183.05
8.	Haryana		48.30	4.00			53.20
9.	Himachal Pradesh		93.24				93.24
10.	Jammu & Kashmir		102.24				102.24
11.	Jharkhand		4.05				4.05
12.	Karnataka	124.30	182.38	109.38	1.00	0.03	417.09
13.	Kerala	2.00	69.52			0.03	71.55
14.	Lakshadweep					0.65	0.65
15.	Madhya Pradesh	22.60	38.96		2.70	0.34	64.60
16.	Maharashtra	401.20	206.33	24.50	1.90	0.18	634.11
17.	Manipur		5.45				5.45
18.	Meghalaya		30.71				30.71
19.	Mizoram		14.78				14.78
20.	Nagaland		20.47				20.47
21.	Orissa	1.10	7.30				8.40
22.	Punjab		107.40	22.00	0.75	0.30	130.45
23.	Rajasthan	60.70	23.85			0.05	84.60
24.	Sikkim		35.60				35.60
25.	Tamil Nadu	990.40	76.40	106.00	1.98	0.21	1174.99
26.	Tripura		16.01				16.01
27.	Uttar Pradesh		21.50	46.50	3.00	0.32	71.32
28.	Uttaranchal		69.60				69.60
29.	West Bengal	1.10	92.28			0.05	93.43
	TOTAL	1869.10	1509.25	483.93	25.73	2.49	3890.50

MW = Megawatt